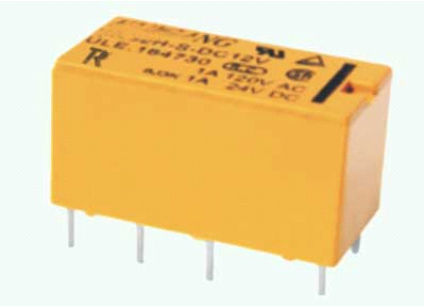
Signal Relay--T4078



Feature

1. Low profile size: 20.3(L)x10(W)x11.5(H)mm
2. Max Switching Capacity: 1A/120VAC ; 2A/30VDC
3. Environmental friendly product
4. Terminal Type: PCB

Typical applications

◆Telecomunications

◆Appliances ◆Office Equipment

Reference Cross: JRC-27F V23105 DS2Y G5V DSY2Y

Specifications

◆ Contact Ratings

Number of poles		**2 Pole**	
Arrangement	2 Form C		
Initial contact resistance, max.(by voltage drop 6VDC/1A)	50m Ω		
Contact material	Silver alloy		
Rating (resistive load)	Nominal switching capacity	1A@120VAC/24 VDC	
	Max. switching power	120VA /60W	
	Max. switching voltage	250VAC/220VDC	
	Max. switching current	2A	
Expected life (min.operations)	Mechanical (at 300cpm)	5×10^6	
	Electrical (resistive load)	1×10^5	

◆ Coil data

1、Sensitive coil				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	40	22.2	16.7	8.3
Coil resistance (Ω) ± 10%	125	405	720	2880
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.2W	0.2W	0.2W	0.2W
2、Standard coil				
Rated voltage (VDC)	5	9	12	24
Rated current (mA)	72	40	30	15
Coil resistance (Ω) ± 10%	69	225	400	1600
Must operate voltage	75% max. of rated voltage			
Must release voltage	5% min. of rated voltage			
Max voltage	130% of rated voltage			
Power consumption	0.36W	0.36W	0.36W	0.36W

◆ Characteristics

Item		
Initial insulation resistance		Min.100 MΩ （at 500VDC）
Dielectric strength	Between open contacts	750VAC 1 Min.
	Between coil and contacts	1000VAC 1 Min.
	Between adjacent contact sets	750VAC 1 Min.
Operate time (at nominal voltage)		5ms
Release time (at nominal voltage)		3ms
Temperature rise (at nominal voltage)		30K max. (at 20℃)
Shock resistance	Functional	100 m/ S^2
	Destructive	500 m/ S^2
Vibration resistance	Functional	10 to 55Hz, at double amplitude 1.5mm
	Destructive	
Ambient temperature		-40℃～+85℃
Humidity		45% to 85% RH
Termination		PCB
Unit weight		Approx. 5g

Ordering information

T4078 — 2 X X

1 2 3

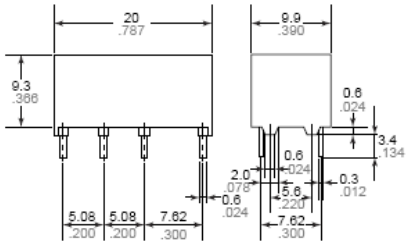
1. **Product type: T4078**
2. **Coil Voltage**
   05—5VDC 12—12VDC 24—24VDC
3. **Coil power**
   C—Sensitive(0.2W) Blank—Standard(0.36W)

Note: Any special requests, please contact us.

Outline Dimensions, PCB Layout and Wiring Diagram

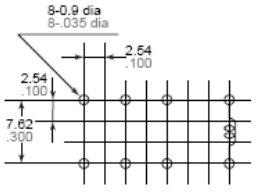
(Dimensions are in millimeters , to convert millimeters to inches divide by 25.4)

Single side stable



General tolerance: ±0.3 ± .012

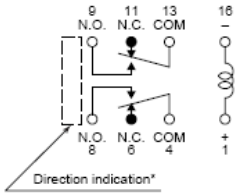
PC board pattern (Copper-side view)



matching 16 pin IC socket

Tolerance: ±0.1 ± .004

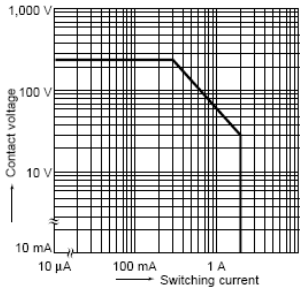
Schematic (Bottom view)
(Deenergized position)



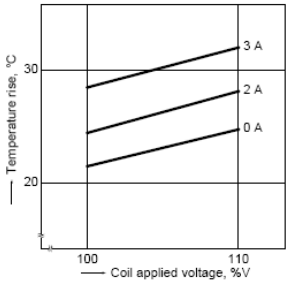
*A polarity bar shows the relay direction.

Reference data

1. Maximum switching capacity



2-(1) Coil temperature rise (Single side stable)
Tested sample: DS2Y-S-DC12V, 5 pcs.
Measured portion: Inside the coil
Ambient temperature: 21°C to 25°C 70°F to 77°F



2-(2) Coil temperature rise 2 coil latching
Tested sample: DS2Y-SL2-DC12V, 5 pcs.
Measured portion: Inside the coil
Ambient temperature: 21°C to 25°C 70°F to 77°F